NC/QC/W1/2022-23/LO/PCC1 Date: 13-02-2023

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements, developments and Construction Of Lead Off Drain From Venkatala Lake View Layout To Yelahanka 4 Waste Weir and Samudaya Bhavana at Ambedkarnagara and Additional floor to Someswara temple Samudaya Bhavana and Kanakanagara Samudaya bhavana, Additional Improvements to Garadi mane and Developmental Of Balanace Roads In Kempegowda Ward, Providing Chain link Fencing to Doddabettahalli Govt. School Ground (Sy.No5) in ward no. 01, 03,04 and 05.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. SHANKARAPPA T K (MESPC INFRA PROJECTS PRIVATE LIMITED)

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**66.50**	0 -20	30- 70
10mm	**19.20**	0 -5	10- 35
4.75mm	**4.80**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**93.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**69.50**	60-95	75-100	85-100	
01.18	**59.80**	30-70	55-90	75-100	
600.mic	**46.20**	15-34	35-59	60-79	
300.mic	**20.90**	5-20	8-30	12-40	
150.mic	**7.50**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Beside Yelahanka Lake CH: 0.00m to 30.00m

AE-01

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NC/QC/W1/2022-23/LO/CB1 Date: 27-02-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
(Project*: Improvements, developments and Construction Of Lead Off Drain From Venkatala Lake View Layout To Yelahanka Waste Weir and Samudaya Bhavana at Ambedkarnagara and Additional floor to Someswara temple Samudaya Bhavana and Kanakanagara Samudaya bhavana, Additional Improvements to Garadi mane and Developmental Of Balanace Roads In Kempegowda Ward, Providing Chain link Fencing to Doddabettahalli Govt. School Ground (Sy No5) in ward no. 01, 03,04 and 05.)
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. SHANKARAPPA T K (MESPC INFRA PROJECTS PRIVATE LIMITED)

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-23	27-02-23	07	22500	350	15.56	15.85
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work.
Beside Yelahanka Lake CH: 30.00m to 60.00m

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NC/QC/W1/2022-23/LO/W4

Date: 01-04-2023

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements, developments and Construction Of Lead Off Drain From Venkatala Lake View Layout To Yelahanka 4 Waste Weir and Samudaya Bhavana at Ambedkarnagara and Additional floor to Someswara temple Samudaya Bhavana and Kanakanagara Samudaya bhavana,'Additional Improvements to Garadi mane and Developmental Of Balanace Roads In Kempegowda Ward, Providing Chain link Fencing to Doddabettahalli Govt. School Ground (Sy.No5) in ward no. 01, 03,04 and 05.}
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. SHANKARAPPA T K (MESPC INFRA PROJECTS PRIVATE LIMITED)

TEST RESULTS

1. Gradation Test:
Location : Vikas Layout Main Road

TABLE 1.1

Sample **WMM** = Total Weight of the Sample (gm) : 1000.00

Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	0.00	0.00	0.00	**100.00**	100
45.00	21.00	21.00	2.10	**97.90**	95-100
26.50	---	---	---	---	-
22.40	208.00	229.00	22.90	**77.10**	60-80
11.20	265.00	494.00	49.40	**50.60**	40-60
4.75	168.00	662.00	66.20	**33.80**	25-40
2.36	154.00	816.00	81.60	**18.40**	15-30
0.600	97.00	913.00	91.30	**8.70**	8-22
0.075	73.00	986.00	98.60	**1.40**	0-5
Pan	14.00	1000.00	100.00	**0.00**	---

AE-01

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2. **Gradation Test** – Extraction Sample

TABLE 2.1

Sample C1 **DBM** = Total Weight of the Sample (gm) : 502.00

Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	0.00	0.00	0.00	**100.00**	100
26.5	23.00	23.00	4.58	**95.42**	90-100
19.0	70.00	93.00	18.53	**81.47**	71-95
13.20	84.00	177.00	35.26	**64.74**	56-80
4.75	99.00	276.00	54.98	**45.02**	38-54
2.36	72.00	348.00	69.32	**30.68**	28-42
0.300	95.00	443.00	88.25	**11.75**	7-21
0.075	43.00	486.00	96.81	**3.19**	2-8
Pan	16.00	502.00	100.00	**0.00**	---

3. **Properties of DBM (Gr-2) Mix** - Stability of Bituminous Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1204**	900
2	Marshall Flow at 60°C, mm.	**2.91**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work

Vikas layout 3rd Cross Road

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NC/QC/W1/2022-23/LO/BC1

Date: 11-04-2023

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
(Project*: Improvements, developments and Construction Of Lead Off Drain From Venkatala Lake View Layout To Yelahanka 4 Waste Weir and Samudaya Bhavana at Ambedkarnagara and Additional floor to Someswara temple Samudaya Bhavana and Kanakanagara Samudaya bhavana, Additional Improvements to Garadi mane and Developmental Of Balanace Roads In Kempegowda Ward, Providing Chain link Fencing to Doddabettahalli Govt. School Ground (Sy.No5) in ward no. 01, 03,04 and 05.)
Ref.: Material testing/PMC/22-23,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. SHANKARAPPA T K (MESPC INFRA PROJECTS PRIVATE LIMITED)

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
Location: Canadian International School Road

1. BITUMEN EXTRACTION TEST – BC
TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	500.00
2	Weight of the Sample After Extraction, gm	S2	473.00
3	Initial weight of Filter paper, gm	F1	4.00
4	Final weight of Filter paper, gm	F2	4.60
5	Difference in weight of Filter Paper, gm	F= F2-F1	0.60
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	**5.52**

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